

FÖRST
Rely on it



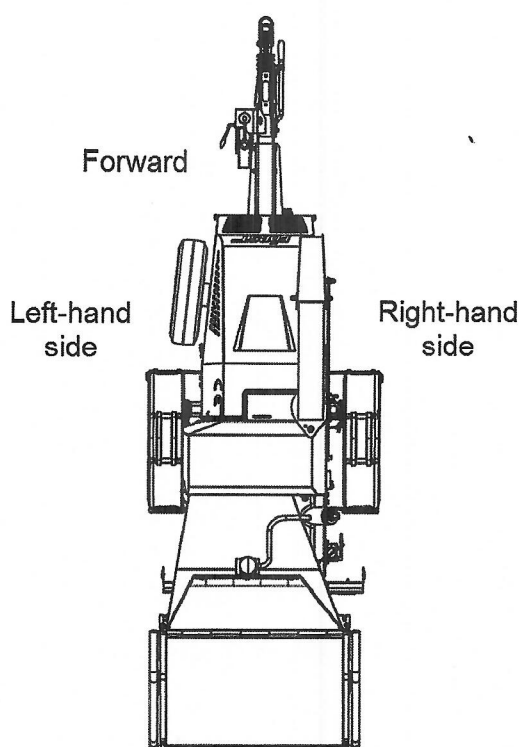
ST6 D24

**OPERATOR AND
MAINTENANCE MANUAL**

**CE
UK
CA**
Redwood
Global Ltd

LEFT-HAND AND RIGHT-HAND SIDE

In this manual "left-hand" and "right-hand" mean your left and right when you are standing facing forward, feeding material into the machine.



OBTAINING DOCUMENTATION AND INFORMATION

The latest version of the documentation is available at the following address:

<https://forstglobal.com/my-forst/manuals>

1.7 FEED ROLLER CONTROLS

Red stop bar

The red stop bar (1, Figure 6) located on the folding tray is used to stop the feed roller during normal operation. When pushed, the spring-loaded bar interrupts power to the feed rollers, and they stop instantly.

The stop bar must be pushed through its full travel to activate the proximity switch.



CAUTION

When the red stop bar is pushed, the engine will continue to run and the flywheel will still be turning.



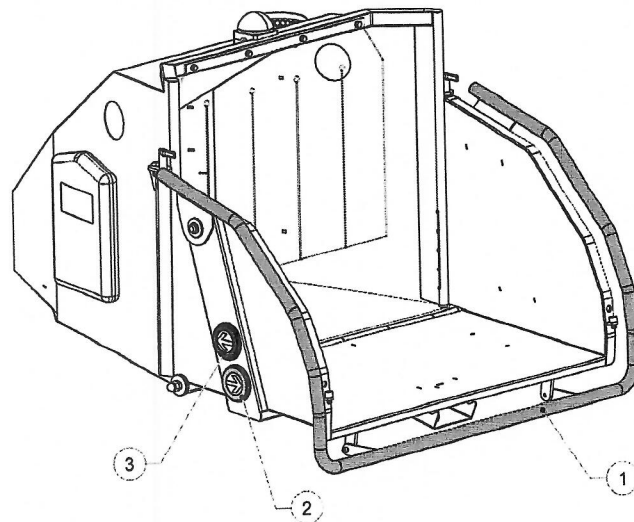
WARNING

If you push the red stop bar in an emergency, you must also push an E-stop button, this will make sure the feed rollers do not start moving accidentally.

Forward and backwards buttons

The green and orange buttons are used to control the feed roller direction.

- The green button (3, Figure 6) turns the feed rollers forward.
- The orange button (2, Figure 6) turns the feed rollers backward.



- 1 Red stop bar
2 Orange reverse button

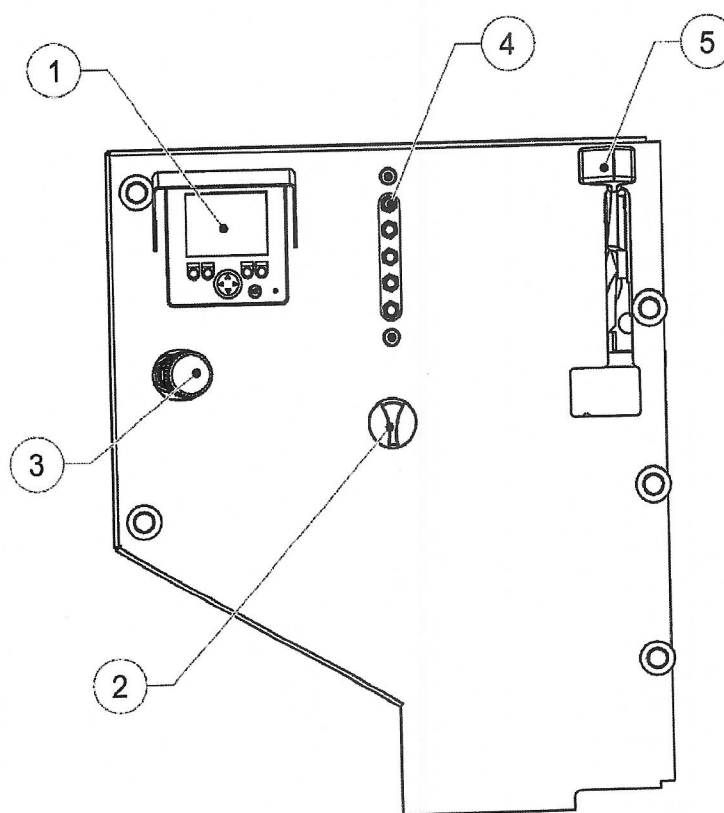
- 3 Green forward button

Figure 6 - Feed roller controls

1.8 CONTROL PANEL

The control panel is located on the right-hand side panel. On the control panel you will find the following:

- Display screen
- Refer to "Display screen" on page 27
- Ignition switch
- Refer to "Ignition switch" on page 30
- Throttle
- Grease bank
- Feed roller speed adjuster



- 1 Display screen
- 2 Ignition switch
- 3 Feed roller speed knob

- 4 Grease bank
- 5 Throttle

Figure 7 - Control panel

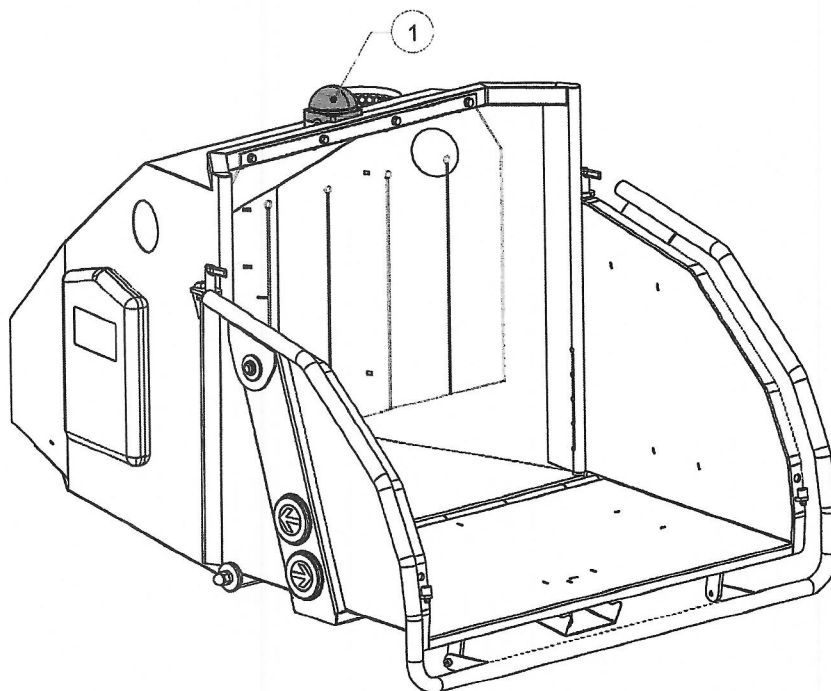
1.9 EMERGENCY STOP BUTTONS



WARNING

Pushing an emergency stop button does not stop the engine.

There is one emergency stop button located on the top of the hopper. Push the emergency stop to stop the feed rollers instantly.



1 Emergency stop button

Figure 8 - Emergency stop button

NOTICE

Pull the emergency stop button up to reset.


1.10 DISPLAY SCREEN

The display screen is located on the control panel.
The information screen is displayed on start up.

1.10.1 P1 - INFORMATION SCREEN

The information screen is displayed on start up. The screen displays the following information:

- Total running time in hours
 - In Feed
 - RPM - Current flywheel speed
- Lights up orange when feed rollers turn forward.

Push the  button below the relevant P# number to navigate from page to page on the screen.

Push the up arrow on the scroll pad to access the back pages.

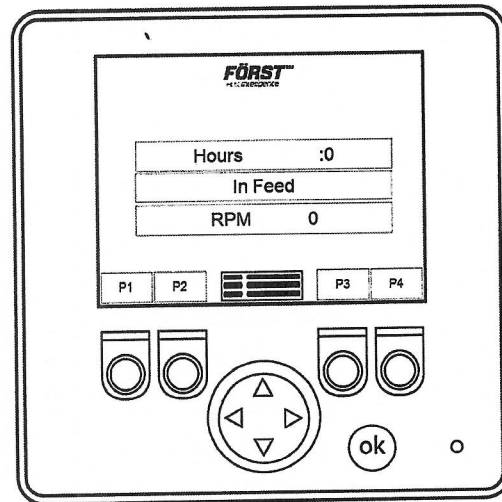



Figure 9 - Information screen

1.10.2 PRE-HEAT SCREEN

The Pre-Heat timings are set at the factory and do not require changing unless told to do so by Redwood Global Ltd.

Push the  button below P4 to access the screen from any other screen.

- Pre-heat - X
- Pre-heat Time - set to 1 second
- Crank Time - Set to 3 seconds

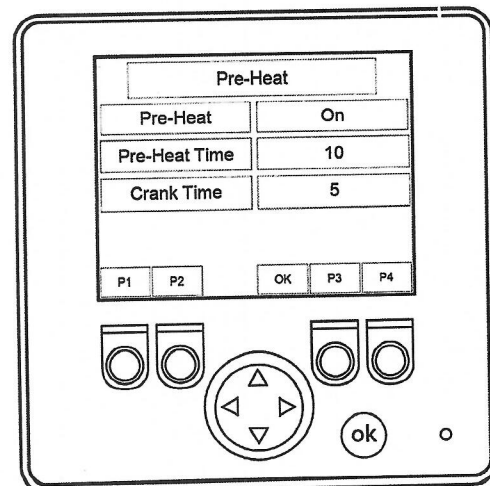


Figure 10 - Pre-heat screen

1.11 IGNITION SWITCH

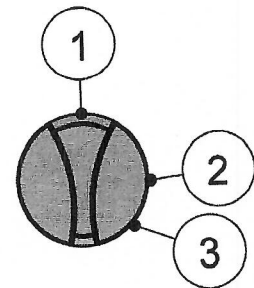
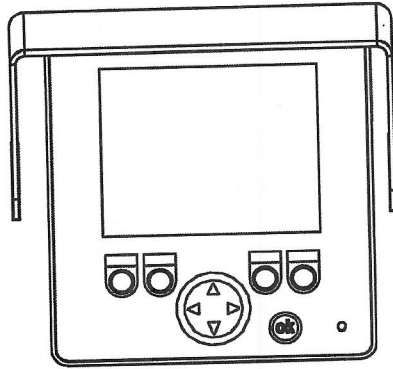


Figure 15 - Ignition switch

Off position (1, Figure 15)

This is the normal position when the machine is not in use.

On position (2, Figure 15)

This is the normal operating position. All electrical systems are on.

Start position (3, Figure 15)

This is the position for starting the engine. The key should be released from this position as soon as the engine starts.

2.1 SAFE WORKING

Before using this machine, make sure that you are trained and competent in its operation.

- Know the location of and how to use all the safety features.
- Know how to control the feed and stop the machine in an emergency.
- Be familiar with the hazards and safe working practices to prevent injury, damage to property, and machine.
- Also, be aware of the legal restrictions for personnel and towing with vehicles.



DANGER

NEVER operate the machine without the discharge chute attached. Doing so could result in serious injury.



DANGER

ALWAYS load wood from the sides of the hopper and never directly behind it.



WARNING

Only suitability trained or qualified personnel must operate this machine.

- Operators and service personnel must be above the minimum school leaving age (MSLA).
- Do not let anyone operate or service the machine who has not been fully trained.



WARNING

Always wear suitable personnel protective equipment (PPE) when operating the woodchipper machine.

Recommended PPE:

- Chainsaw safety helmet (EN 397) with mesh visor (EN 1731)
- Correctly rated ear defenders (EN 352)
- Work gloves with elasticated wrist bands (EN388)
- Steel toe cap boots (EN 345-1)
- Close fitting heavy duty non-snag clothing. High visibility clothing (EN 471), if needed

Avoid:

- Wearing rings, bracelets, watches or jewellery

**WARNING**

When the machine is in use, woodchip and debris are ejected with considerable force from the chute.

- Make sure the discharge chute directs woodchip in a safe direction to avoid injury or property damaged

**WARNING**

Keep children and animals away from the working area.

**WARNING**

Protect breathing with a face mask if appropriate. Some plant material can give off harmful dust and poisonous vapours. This may cause respiratory problems or serious poisoning. Check the material to be processed before starting.

**WARNING**

All personnel operating or feeding material into the machine must wear heavy duty non-snag clothing to help prevent being caught on material and drawn into the machine. The feed mechanism of this machine uses high powered hydraulic motors to drive sharp toothed rollers that feed material into the cutting blades. **DO NOT** take risks with it.

**WARNING**

Never climb onto the hopper area while the engine is running. If access is required for maintenance or to clear blockages:

- Stop the engine
- Remove the ignition key

**WARNING**

Never assist any material into the feed rollers with hands or feet. Use the wooden paddle or further long material if necessary.

**WARNING**

Material can be forcibly ejected from the hopper towards the operator. Make sure full head and face protection is worn.

**WARNING**

Very twisted material should be trimmed into manageable pieces. Failure to do this can result in material extending outside the hopper, moving aggressively side-to-side creating a hazard to the operator.

**WARNING**

Keep hands and feet outside the hopper. Do not attempt to force material into the machine by hand – use a piece of wood if necessary.



WARNING

Keep all guards and shields around any moving parts in place while the machine is operational.



WARNING

Do not remove, jam, disable or otherwise impede the effectiveness of any stop and reset controls.



WARNING

Do not position the machine in such a way that the in-feed chute is lower to the ground than the rest of the machine.



WARNING

Do not operate the machine inside a building or structure.



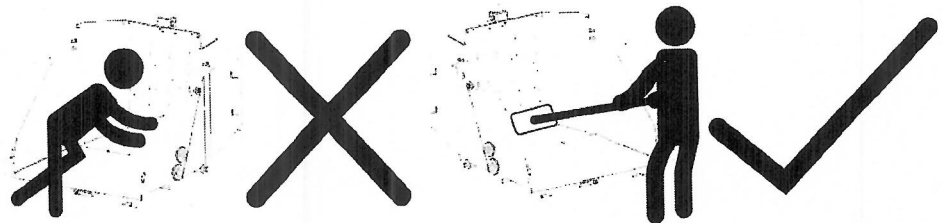
WARNING

Do not modify the teeth of the chain conveyor unless you have been provided with instructions on how to do so safely by the manufacturer.



WARNING

Stay clear of chipping area while machine is operational.



**CAUTION**

When operating the machine, be aware of your surroundings and work in a safe location.

- Position the machine:
 - on as firm a surface as possible and stabilise the machine
 - so that operators do not have to stand on embankments/slopes when feeding material into the machine
 - furthest from any local danger. For example, when working next to a road, position the machine on the road verge
 - away from drains and manhole covers
- Make sure the machine cannot move or topple when in use. If necessary, chock the wheels
- Do not use the machine in poor visibility or insufficient light
- Make sure ventilation is adequate and any exhaust fumes are vented into open air if working in an enclosed space
- Create a 10m exclusion zone around the woodchipper machine while machine is in operation On all reasonably foreseeable approaches to the work-site, erect warning and prohibition signs conforming to the Health and Safety (Safety Signs and Signals) Regulations 1996, indicating a hazardous work site and that unauthorised access is prohibited. In areas of very high public access, additional controls (e.g. barrier tape, barriers, extra manning) may be required
- A Code of Practice Make sure all operations near to highways are adequately signed with the appropriate notices as specified in the Department of Transport's Safety at street works and road works: A Code of Practice
- Make sure the discharge chute is positioned to prevent chips being blown onto the highway during roadside operations or in any direction where they can affect colleagues or members of the public
- Keep the work area free of material build up

NOTICE

If you are operating the machine outside the United Kingdom please refer to in-country safety standards.

**CAUTION**

Do not try to force material over mm in diameter into the machine.

2.2 GENERAL SAFETY



DO stop the machine before making any adjustments, refuelling or cleaning.

DO make sure all moving parts in the machine have stopped. Remove the ignition key before starting any maintenance or when the machine is left unattended.

DO make sure that the machine is level, well supported and cannot move during use.

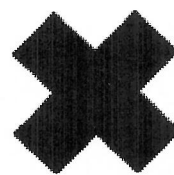
DO run the machine at maximum throttle.

DO conduct regular machine checks for visual fluid leaks.

DO take regular breaks. Wearing protective equipment can be hot and tiring leading to a lack of concentration, increasing the risk of having an accident.

DO keep hands, feet and clothing out of the feed area, discharge chute and moving parts.

DO remove any debris attached to the wood, such as nails, wire or mesh before commencing work.



DO NOT use machine in poor visibility or insufficient light to see clearly.

DO NOT use or attempt to start the machine without the discharge chute or guards correctly and securely fitted.

DO NOT stand directly in front of the in-feed hopper when using the machine. Stand to one side.

DO NOT allow the following to enter the machine as damage is likely:

BRICKS	METAL
STRING	GLASS
CLOTH	RUBBER
PLASTIC	ROOTS
STONES	BEDDING PLANTS

DO NOT stand in front of the discharge chute.

DO NOT smoke when refuelling. Fuel is highly flammable and explosive in certain conditions.


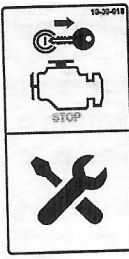

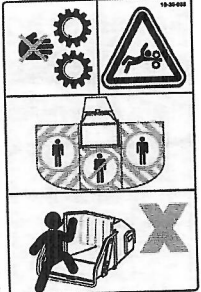

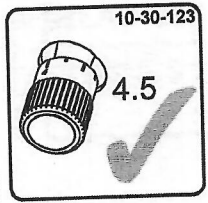
DO NOT let anyone who has not received instruction, operate the machine.

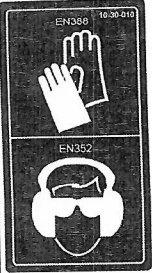


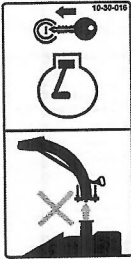

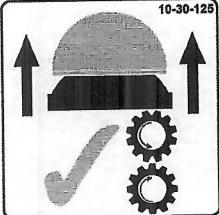
DO NOT climb on the machine at any time except for the ride on plate fitted to tracked machines

DO NOT handle material partially engaged in the machine while in operation.

DO NOT touch any exposed wiring while the machine is running.

2.4 DECALS

Decal	Description	Decal	Description
	CE (Conformité Européenne or European Conformity) mark. Manufacturer's declaration that the product complies with the essential requirements of the relevant European health, safety and environment protection legislation.		Ensure that all rotatin parts have stopped before maintenance
	Warning: Risk on access to the infeed and/or chipping components (cutting, crushing and entanglement)		Warning: Risk of bein pulled into the infeed mechanism. Warning: Stay within the designated manu loading area when feeding the chipper. Warning: Do not clim into the infeed chute
	Warning: Read the operators manuals before working on the machine		Turn the feed roller controls to 4.5 for optimal results when chipping leafy materi

Decal	Description	Decal	Description
	Use only close fitting gloves, suitable hearing protection and eye protection to protect against the risk of ejected material.		Apply 2x parts of grease to each grease nipple once a week.
	<p>Tighten the flywheel nuts to 310Nm.</p> <p>Warning: danger of cutting</p>		Warning: Do not run the engine with the discharge chute removed.
	Use only Diesel EN590 fuel for this machine		Pull the E-Stop up to engage the feed rollers if feed rollers are stopped.

3.1 CONNECTING TO THE TOW VEHICLE

NOTICE

When the machine is not connected to the tow vehicle:

- The handbrake must be applied
- The machine must be secured using two chocks, if available



WARNING

The machine can roll back 25-30cm before the full braking force is applied. Make sure that there is sufficient space when parking the machine.

1. Lift the machine hitch by turning the jockey wheel handle anticlockwise until the hitch tow head is above the height of the vehicle ball hitch.
2. Make sure the vehicle ball hitch is greased and reverse the vehicle until the ball hitch is directly below the machine tow head.
3. Attach the breakaway cable to a suitably strong point on the vehicle (Figure 19)



CAUTION

- The breakaway cable must pass correctly through the cable guide space
- The breakaway coupling cable must not wrap around the jockey wheel

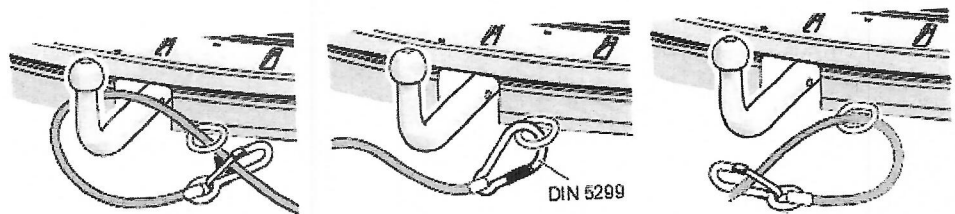


Figure 19 - Breakaway cable

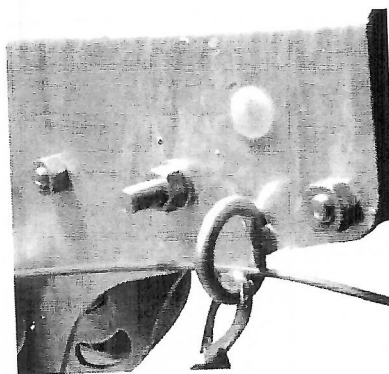


Figure 20 - Breakaway cable guide

4. Release the barrel lock.
5. Hold the handle on tow head, squeeze the catch (1, Figure 21) with your forefinger and lift the handle.

6. Wind the jockey wheel handle clockwise to lower the tow head onto the ball hitch.
7. Release the tow head handle and continue to wind the jockey wheel handle clockwise. The tow head should snap into place on the ball hitch. If it doesn't, repeat the previous two steps.

NOTICE

The ball hitch is fully inserted and secure when the handle returns to the horizontal position and the green indicator is visible.

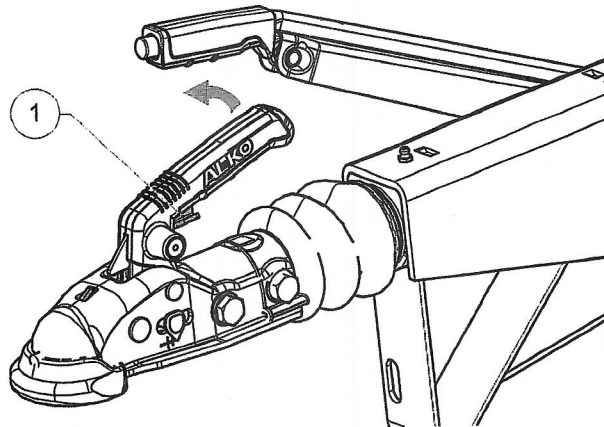


Figure 21 - Tow hitch handle

8. Wind jockey wheel up until fully retracted and the jockey wheel frame is seated in its notch on the stem. The machine's weight should be fully on the vehicle.
9. Release the jockey wheel clamp and slide the jockey wheel assembly fully up, then tighten the clamp.
10. Check that the wear indicator (1, Figure 22) is on the positive side of the limit mark (2, Figure 22).



WARNING

If the wear indicator is on the negative side of the limit mark, either the machine tow hitch or vehicle ball hitch have worn past their safe limit. Correct the defect before you tow the machine.

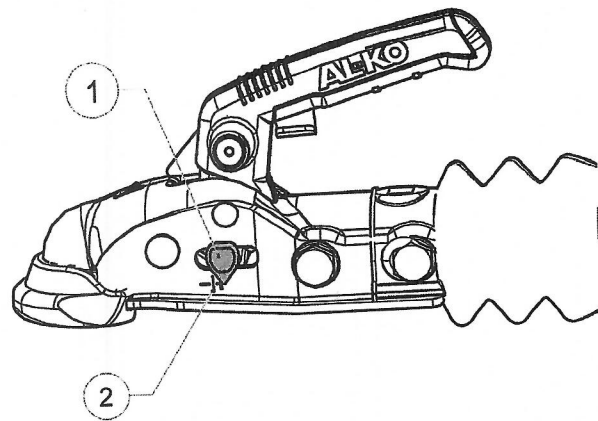


Figure 22 - Tow hitch wear indicator

11. Insert the barrel lock for security.
12. Connect the machine trailer extension plug into the vehicle trailer socket.
13. Check all machine lights and tow vehicle lights are working correctly.
14. The machine is now correctly connected to the tow vehicle.
15. Release the handbrake.
16. Remove the chocks.

3.2 TOWING THE MACHINE

1. Make sure that the machine is in transportation mode before departing:
 - a. Hopper tray is closed in the up position and the locking latch is fully engaged.
 - b. The discharge chute is securely fixed at the inboard position.
 - c. The jockey wheel is up, fully retracted.
 - d. The handbrake is released.

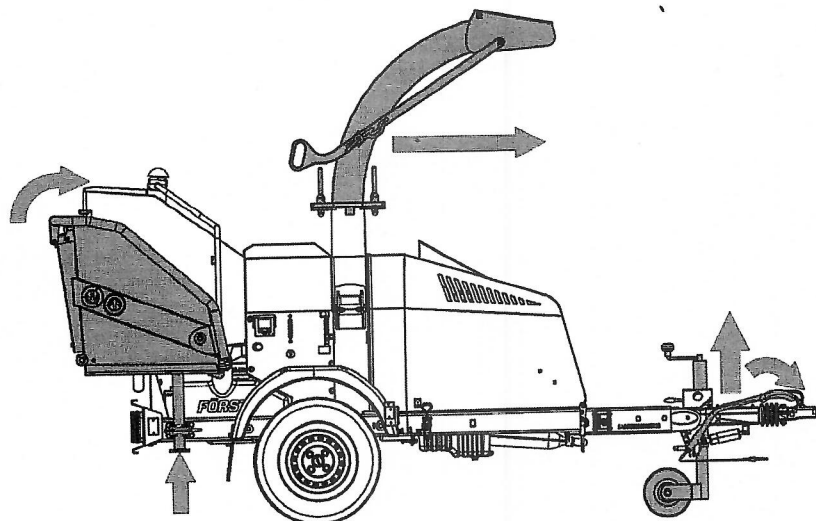


Figure 23 - Tow position

2. When towing the machine, obey the maximum legal towing limit for your country.
3. On very rough and uneven road surfaces, reduce the speed to protect the machine from undue vibration.
4. When off road:
 - a. Avoid objects that may collide with the underside of the machine
 - b. Avoid steep gradients
5. Avoid excessively pot holed ground.
6. Exercise extreme caution when reversing the machine as the short wheel base will react quickly to steering.
7. Clear the machine of any loose wood chip material before departing.
8. Keep tyre pressures inflated to 3.5 Bar or 50 psi.
9. Check wheel nuts are tightened to 90 Nm.
10. Tyres fitted to the machine must:
 - a. be 205/65R15C 102/100T with a load index of 102 = 850kgs.
 - b. have a speed rating of "T" which equates to 190km/h which is above the UK permissible towing speed.
11. The recommended maximum weight of towing vehicle is 7500kgs.

3.3 DISCONNECTING FROM THE TOW VEHICLE



WARNING

The machine can roll back 25-30cm before the full braking force is applied. Make sure that there is sufficient space when parking the machine.



CAUTION

Make sure that the jockey wheel is fastened tight before unhitching the machine. A loose jockey wheel may result on the machine dropping unexpectedly.

NOTICE

Unhitch the machine **before** lifting the handbrake. Lifting the handbrake before unhitching the machine will cause the machine to roll backwards.

NOTICE

When the machine is not connected to the tow vehicle:

- The handbrake must be applied
- The machine must be secured using two chocks, if available

1. Apply the handbrake.
2. Put chocks, if available, against the main wheels.
3. Release the jockey wheel clamp and slide the jockey wheel assembly fully down, then tighten the clamp.
4. Disconnect the breakaway cable from the tow vehicle.
5. Disconnect the machine trailer lighting plug from the vehicle trailer socket.
6. Release the barrel lock.
7. Hold the handle on tow head, squeeze the catch with your forefinger and lift the handle.
8. Wind the jockey wheel handle anticlockwise to until the tow head is away from the ball hitch.
9. Release the tow head handle.
10. Drive the tow vehicle clear of the machine.
11. Level the chassis by turning the jockey wheel handle clockwise or anticlockwise.
12. Insert the barrel lock for security.
13. The machine is now correctly disconnected from the tow vehicle.

3.4 MACHINE LIFTING



WARNING

When lifting the woodchipper, be aware that the lifting eye can securely hold the woodchipper's weight only.

- Use a correctly rated safety shackle.
- Inspect the lifting eye before each use.
- Do not use the lifting eye if damaged.
- Do not use a hoist hook directly on the lifting eye.

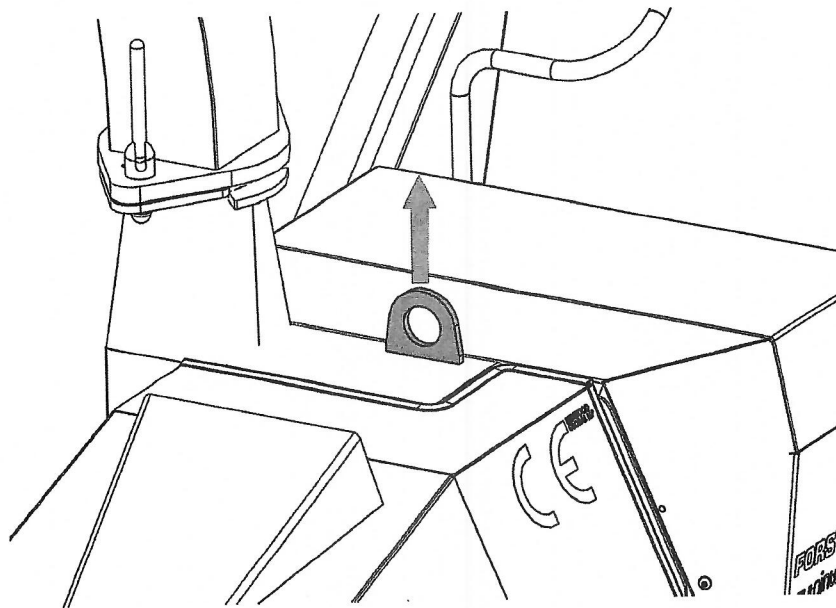


Figure 24 - Lifting eye

3.5 REMOVING THE DISCHARGE CHUTE



DANGER

Do not remove the rear clamp when removing the chute. Doing so will result in the chute falling.

The discharge chute only needs to be removed for storage and transportation purposes. Under no other circumstances should the discharge chute be removed.

1. Stop the engine.
2. Remove the ignition key and keep in a safe place.
3. Rotate the discharge chute so that it is not hanging over the machine.
4. Loosen the front chute rotation clamp by rotating the clamp lever anti-clockwise.

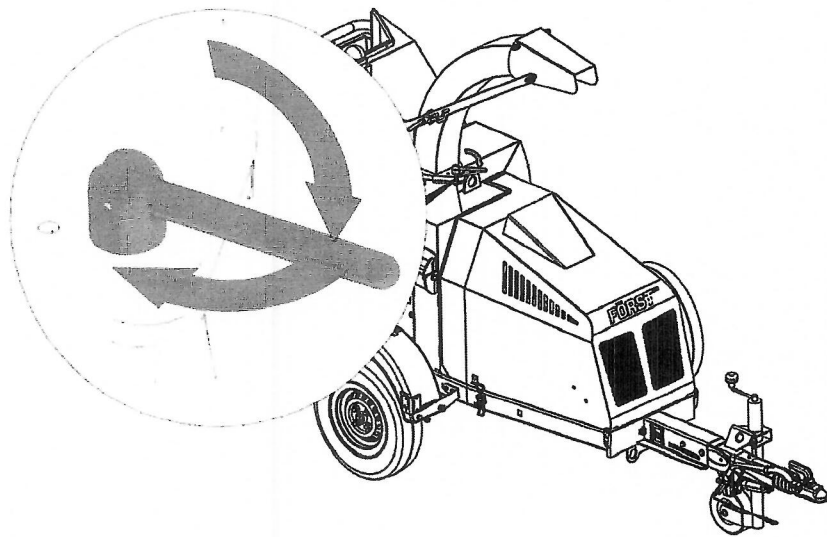


Figure 25 - Chute front rotation clamp

5. Remove both the clamp and the clamp nut and put them somewhere safe.

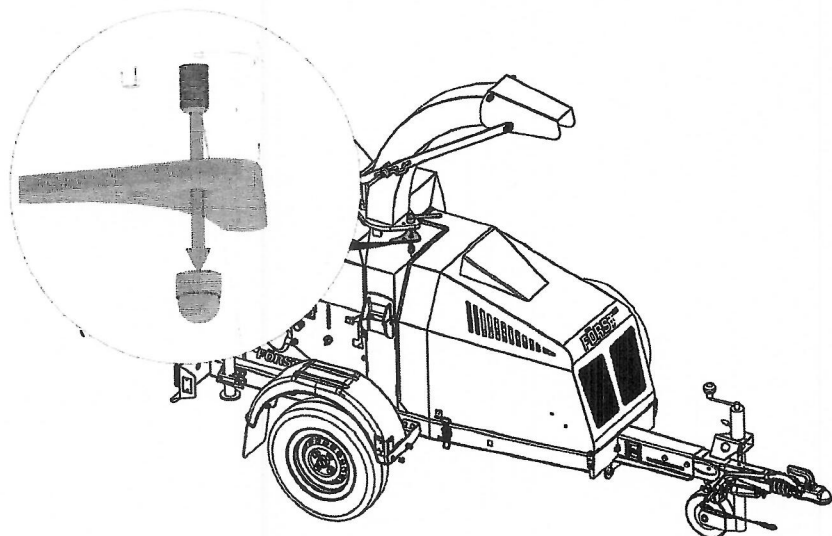


Figure 26 - Remove clamp and nut

6. Loosen the rear clamp by rotating the clamp lever anti-clockwise.

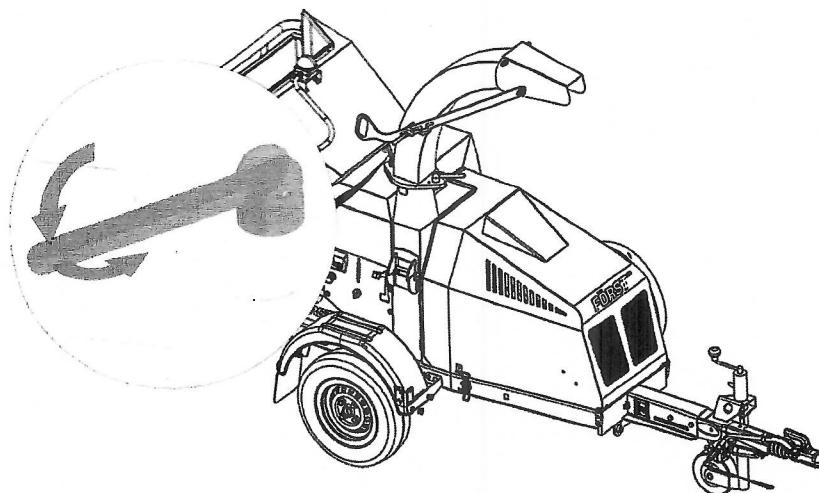


Figure 27 - Loosen the rear clamp

7. Using both hands, carefully slide the chute backwards removing it from the machine.

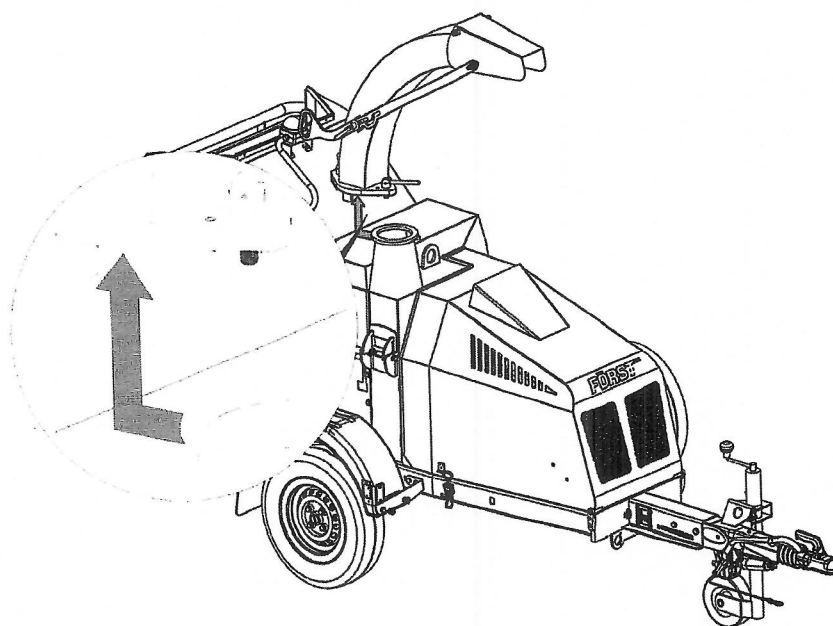


Figure 28 - Remove chute

4.2 POSITIONING THE MACHINE FOR USE



WARNING

Take care when lowering and lifting the hopper. Improperly handling the hopper can result in injury.



CAUTION

Obey all relevant safety warnings when positioning the machine for operation. For more information, refer to "Safety instructions" on page 33

NOTICE

Keep the machine connected to the tow vehicle during operation.

Only disconnect the machine from the tow vehicle for operation if the machine has a rear support stand that can be lowered, wheel chocks are against the main wheels and you are satisfied that the machine is stable and safe to operate.

To set up the machine for operation follow the procedure below.

1. Make sure the machine is on even, level, and stable ground.

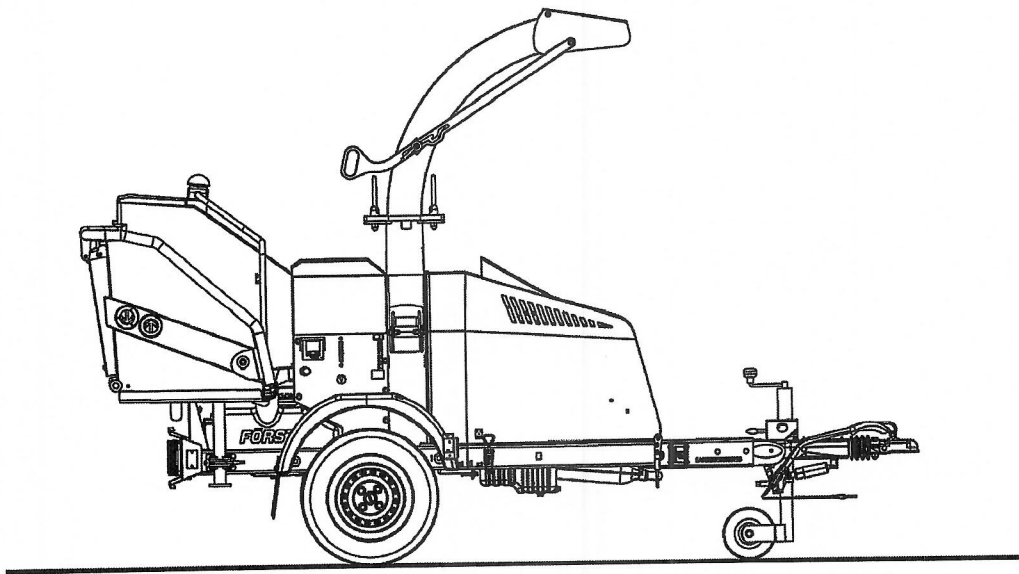


Figure 29 - Positioning the machine

2. Disengage both hopper tray locking latches (1, Figure 30).

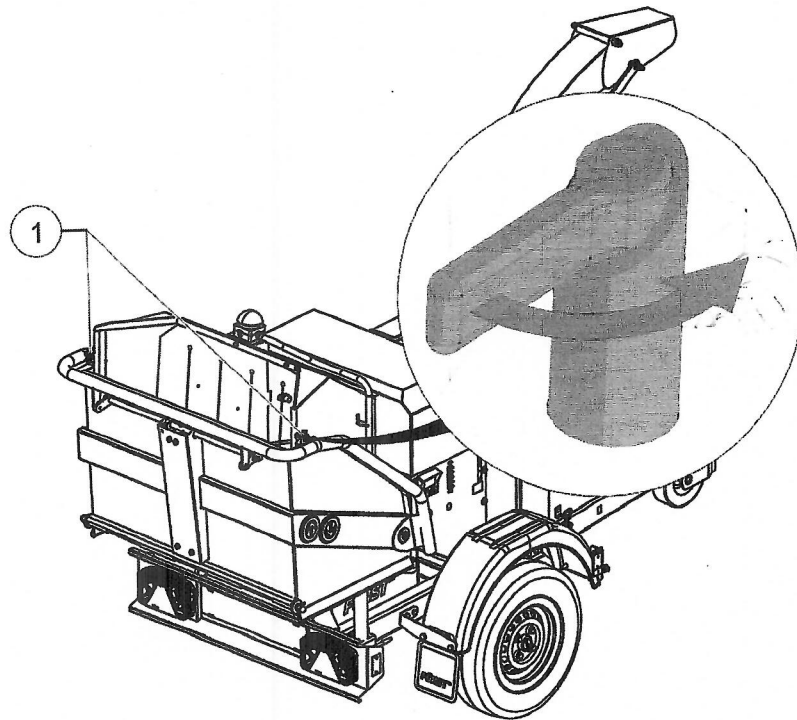


Figure 30 - Hopper tray locking latch

3. Lower the hopper tray in a controlled manner (do not drop the hopper tray).
4. Engage the locking latches, locking the hopper tray in the down position.

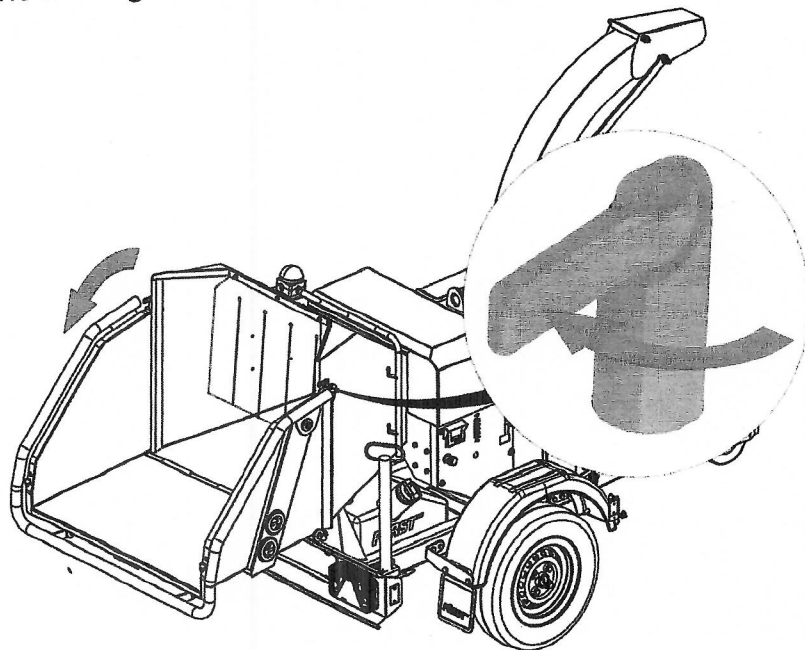


Figure 31 - Hopper tray locked down

5. Rotate the discharge chute to direct woodchip in a safe direction to avoid injury or property damaged.
6. You are now ready to start the engine.

4.3 STARTING THE MACHINE

Carry out daily checks before first use of machine everyday.

To start safely, follow the start up procedure below.

1. Insert the key into the ignition.
2. Make sure that the discharge chute is pointing in a safe direction.
3. Turn the key 90° clockwise.
The screen switches on.

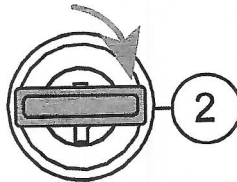


Figure 32 - Key in the ON position

4. After the screen has switched on, turn the key 45° clockwise. Hold the key in this position until the engine starts or the crank cycle finishes.



CAUTION

Do not operate the starter motor for more than 10 seconds. If the engine does not start turn the ignition key to off, wait 30 seconds, and then start the engine.

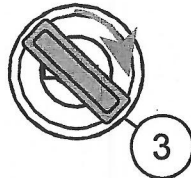


Figure 33 - Key in the engine crank position

- If the engine doesn't fire, turn the key to the OFF position and return to step 3.
 - If the engine doesn't fire after trying three times, check for faults.
For more information, refer to "Troubleshooting" on page 105
5. Once engine has started, reduce engine speed to idle and allow to run for 30 seconds for the oil to flow around the engine before slowly increasing the speed to maximum.

NOTICE

Increase and decrease the engine speed slowly, especially during the first 50 hours of operation.

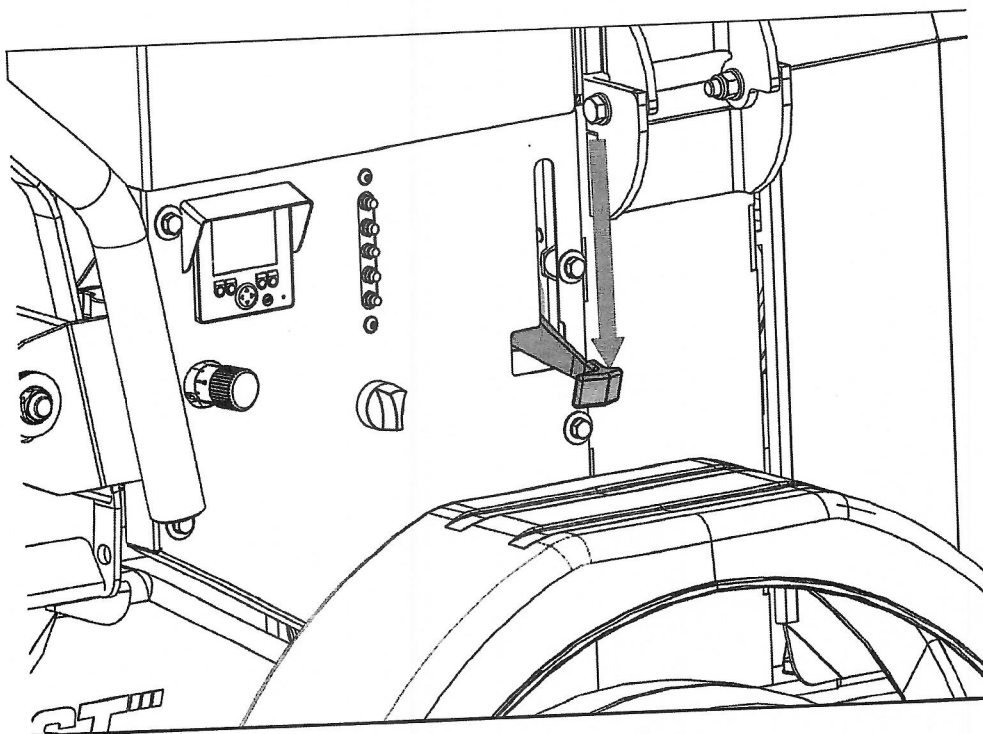


Figure 34 - Maximum throttle position

6. Check the safety system is functioning correctly.
 - For more information, refer to "Safety & function test" on page 61
7. The machine is now ready for use. Wait until the engine is warm before heavy use.

4.4 SAFETY & FUNCTION TEST

The safety & function test makes sure that the safety devices and controls on the machine are working correctly.



WARNING

If any of these checks fail, turn off the machine, remove the key from the ignition switch, and contact FörstAssist.



CAUTION

Faulty or malfunctioning safety devices and controls can put users at risk of injury. If the machine fails any of the safety and function checks, do not use it.

GREEN AND ORANGE HOPPER BUTTONS

Table 1 - Safety and function test

	Action	Expected outcome	
1	Visually inspect the stop bar, stop bar damper, stop bar sensor, hopper tray sensor and hopper tray buttons.	No signs of damage.	<input type="checkbox"/>
2	Visually inspect the E-stops.	No signs of damage and in reset position.	<input type="checkbox"/>
3	Start the engine.		<input type="checkbox"/>
4	Visually inspect the hopper tray buttons.	Green button- LEDs are on when pushed. Orange button - The LEDs flash red when pushed, and are off when released.	<input type="checkbox"/>
5	Push the green and orange hopper tray buttons on either side of the hopper tray.	The rollers do not turn.	<input type="checkbox"/>
6	Lower the hopper tray.		<input type="checkbox"/>
7	On the right-hand side of the hopper tray, do the following:		<input type="checkbox"/>
	a. Push the green hopper tray button.	The feed rollers do not turn.	<input type="checkbox"/>
	b. Push and hold the orange hopper tray button.	The feed rollers turn backwards continuously while held.	<input type="checkbox"/>
8	On the left-hand side of the hopper tray, repeat step 7		<input type="checkbox"/>
9	Increase the engine speed to maximum RPM.	The speed is 1330-1360 RPM.	<input type="checkbox"/>
	On the right-hand side of the hopper tray, do the following:		<input type="checkbox"/>
	a. Push the green hopper tray button.	The feed rollers turn forwards.	<input type="checkbox"/>
	b. Push and hold the orange hopper tray button.	The feed rollers turn backwards continuously while held.	<input type="checkbox"/>
	c. Push the stop bar.	The feed rollers stop.	<input type="checkbox"/>
11	On the left-hand side of the hopper tray, repeat step 10.		<input type="checkbox"/>
12	Push any green hopper tray button.	The feed rollers turn forwards.	<input type="checkbox"/>
13	Reduce the engine speed to idle.	The feed rollers stop.	<input type="checkbox"/>
14	Increase the engine speed to maximum RPM.	The feed rollers turn forwards.	<input type="checkbox"/>

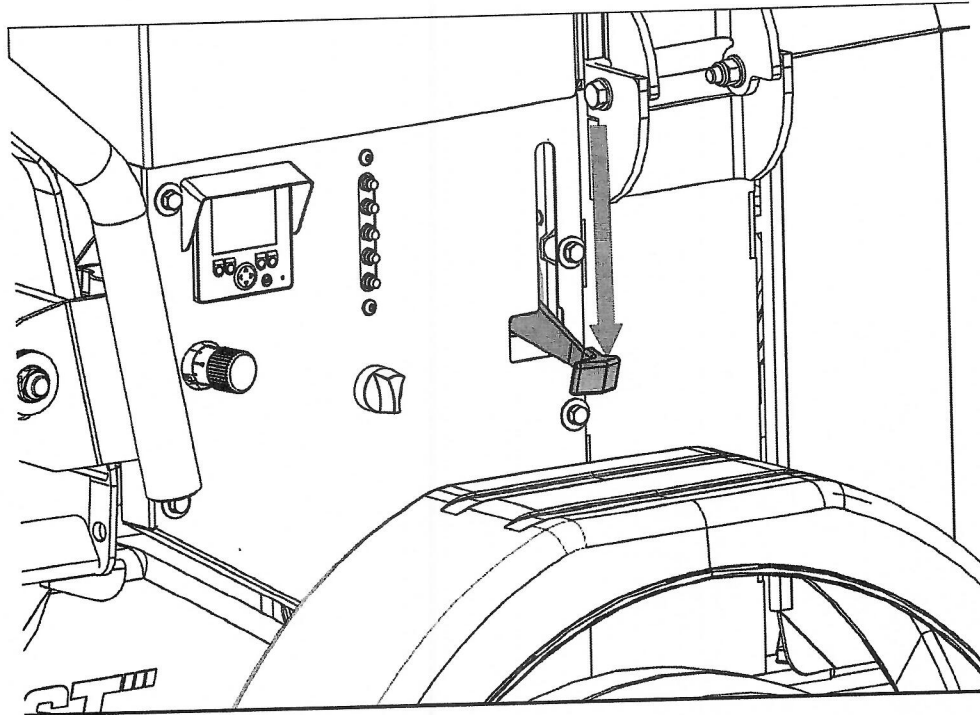
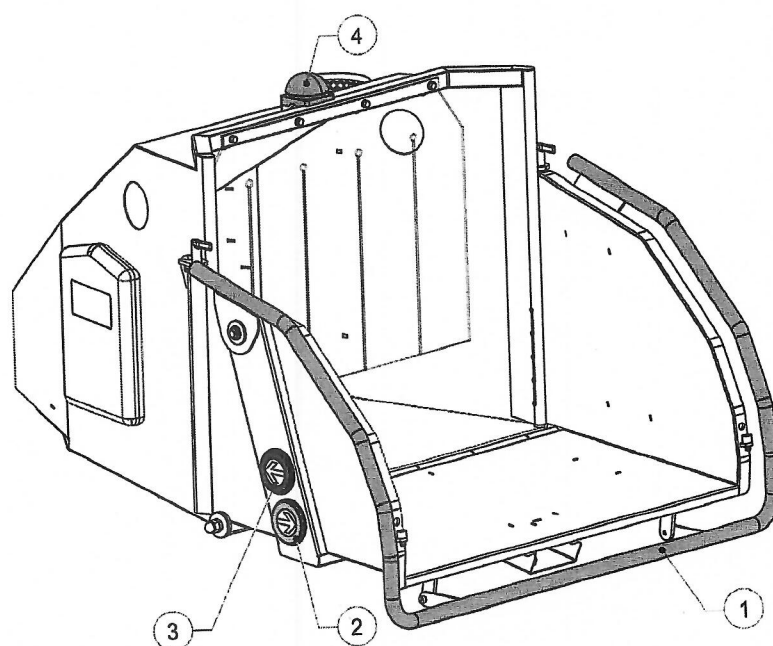


Figure 34 - Maximum throttle position

6. Check the safety system is functioning correctly.
 - For more information, refer to "Safety & function test" on page 61
7. The machine is now ready for use. Wait until the engine is warm before heavy use.

	Action	Expected outcome	
15	Turn the feed roller flow control valve between 1 and 10.	The speed of the feed rollers decreases and increases.	<input type="checkbox"/>
16	Close the hopper tray.	The feed rollers stop.	<input type="checkbox"/>
17	Reduce the engine speed to idle.	Allow the machine to run for 30s.	<input type="checkbox"/>
18	Push the orange or green hopper tray buttons.	The feed rollers do not turn.	<input type="checkbox"/>
19	Open the bonnet.	The engine shuts down.	<input type="checkbox"/>
20	Close the bonnet.		<input type="checkbox"/>
21	Do the following for each E-Stop button.		<input type="checkbox"/>
	a. Restart the woodchipper.		<input type="checkbox"/>
	b. Lower the hopper tray.		<input type="checkbox"/>
	c. Increase the engine speed to maximum RPM.		<input type="checkbox"/>
	d. Push any green hopper tray button.	The feed rollers turn forwards.	<input type="checkbox"/>
	e. Push the E-Stop button.	The feed rollers stop or the woodchipper shuts down.	<input type="checkbox"/>
	f. Reduce the engine speed to idle.		<input type="checkbox"/>
	g. Reset the E-Stop button.		<input type="checkbox"/>
22	Turn the key to the off position and remove it from the ignition.		<input type="checkbox"/>



- 1 Red stop bar
- 2 Orange reverse button
- 3 Green forward button
- 4 E-stop

Figure 35 - Feed roller controls

4.5 FEED ROLLER SPEED ADJUSTMENT

The feed roller speed can be adjusted to suit the material being chipped, refer to Figure 36.

1. Turn dial to align number with paint spot.
2. Set the feed roller speed so that the No-Stress operates as little as possible, this will give the highest throughput.
3. When feeding Leylandii or leafy material, set the feed roller speed to 4.5.
4. Control valve speed adjustment.

Position indicated by paint spot. (1, Figure 36):

- 0 = Minimum
- 10 = Maximum

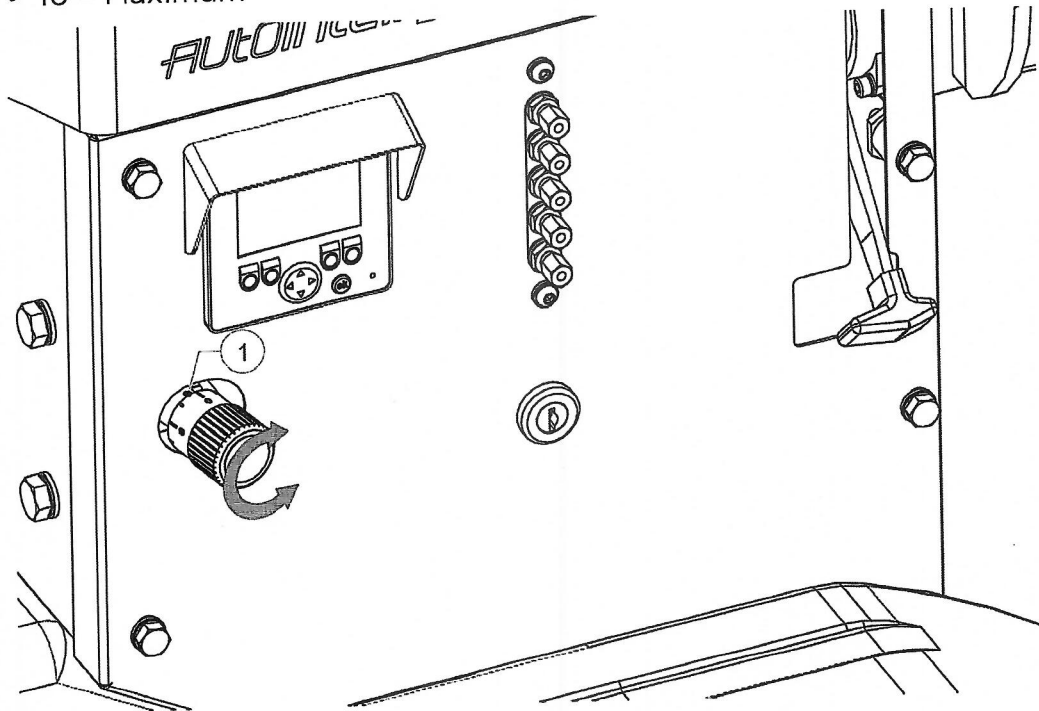


Figure 36 - Feed roller speed adjustment

4.6 SHUTTING DOWN THE MACHINE

To shut down safely, follow the procedure below.

NOTICE

Increase and decrease the engine speed slowly, especially during the first 50 hours of operation.

1. Turn the throttle anticlockwise to reduce engine speed to idle.

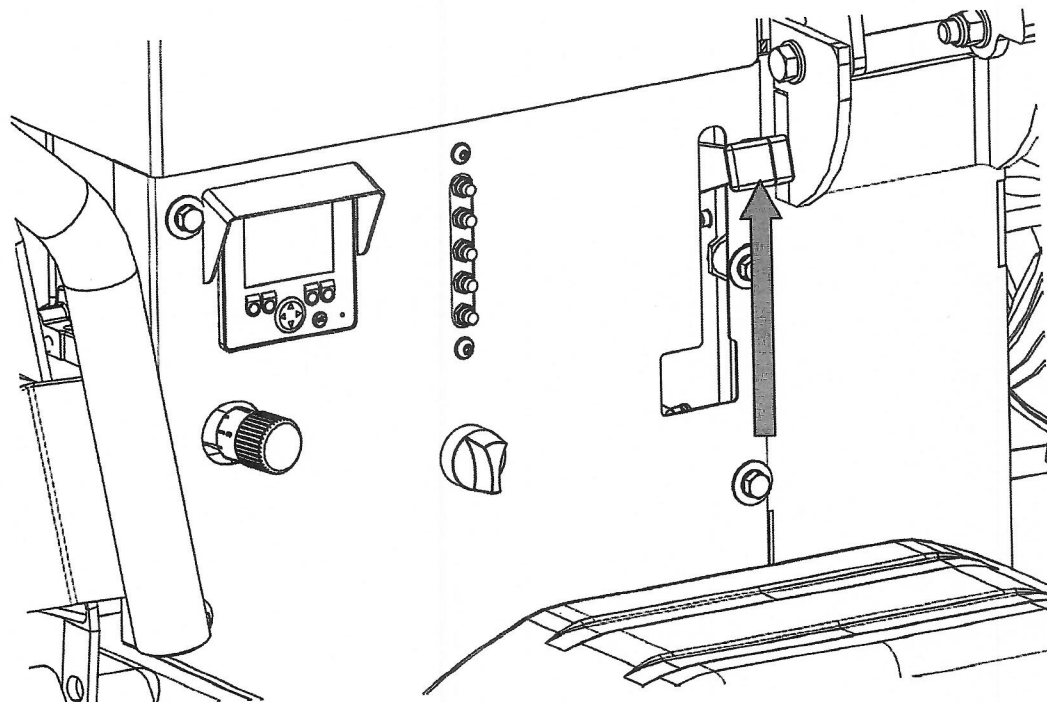


Figure 37 - Throttle

2. Allow the engine to run unloaded and idle for 30 seconds.
3. Turn the key 90° anticlockwise.

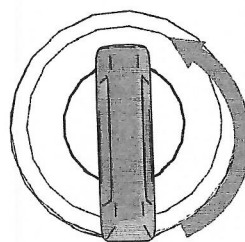


Figure 38 - Key in the OFF position

4. Wait until the engine comes to a complete stop.
5. Zündschlüssel abziehen und an einem sicheren Ort aufbewahren.

4.7 REMOVING BLOCKAGES

Be careful, whatever is fed into the machine has to come out of the discharge chute.



DANGER

Stop the engine before attempting to remove any blockages in the machine. Failure to do so may result in serious injury and loss of life.



CAUTION

Take care when clearing any blockages, potential energy in the machine can cause sudden movements between the teeth and in feed components.



CAUTION

Always monitor the woodchip flow out of the discharge chute. If the flow stops, **stop feeding material immediately**. Continuing to feed material will further compact a blockage and make it more difficult to clear.

1. Stop the engine
2. Remove the ignition key and keep in a safe place.

Check the discharge chute:

3. Remove the discharge chute.
4. Make sure that there is no blockage in the discharge chute.
If the discharge chute is blocked, remove the unwanted material.

Check the flywheel and chipping chamber:



WARNING

When moving the flywheel in either direction, position your hands correctly to avoid injury. Position your hands as shown in Figure 39 and Figure 40.

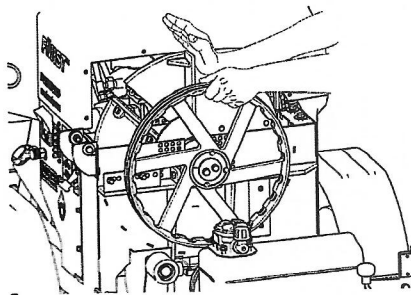


Figure 39 - Pushing the flywheel away from you

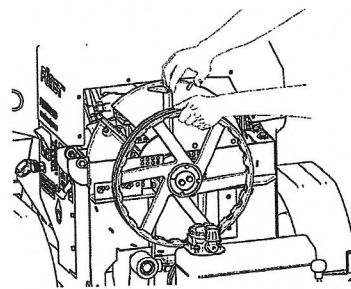


Figure 40 - Pulling the flywheel towards you

5. Check if the flywheel is free to rotate.
6. If the flywheel does not rotate freely do the following:
7. Wearing protective gloves and using a **piece of wood**, carefully clean out the chipping chamber.

Check the feed rollers:

8. Open the bonnet.
9. Open the chipping chamber cover.
 - For more information, refer to "Opening the chipping chamber cover" on page 77
10. Using a suitable tool, loosen the 4x nuts located on top of the 2x spring hangers.

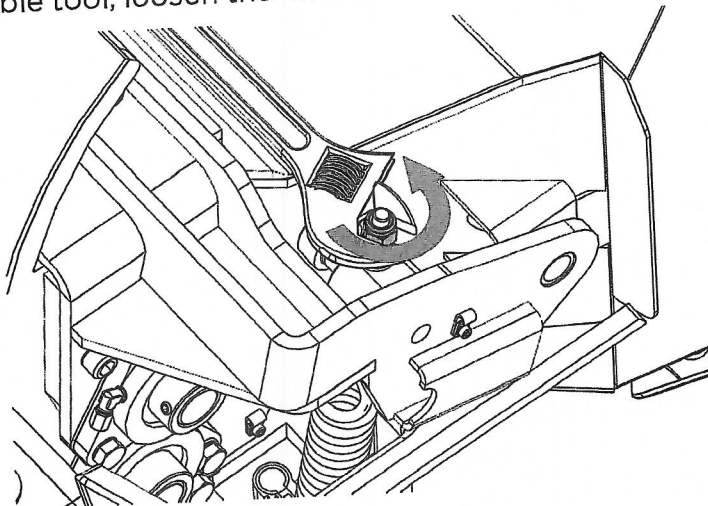


Figure 41 - Spring hanger

11. Put the top feed roller lifting tool (2, Figure 42) into the slot (3, Figure 42).

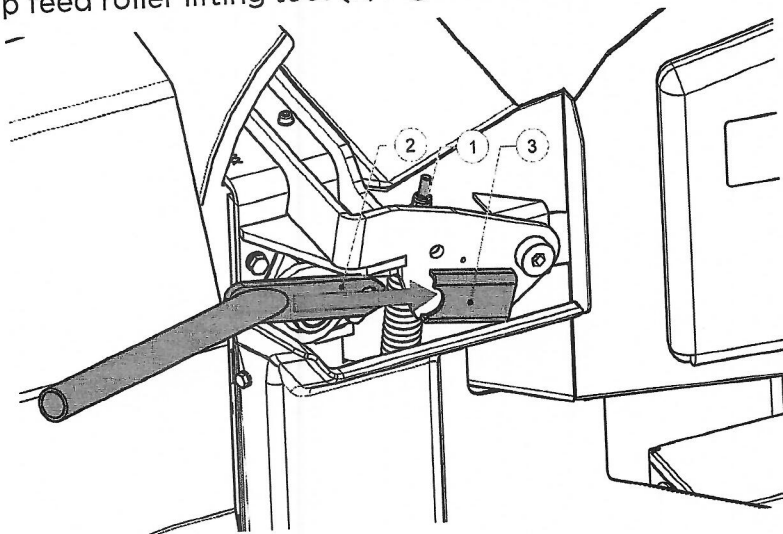


Figure 42 - Feed roller spring tension

12. Lift the top feed roller (2, Figure 43) to the fully open position.

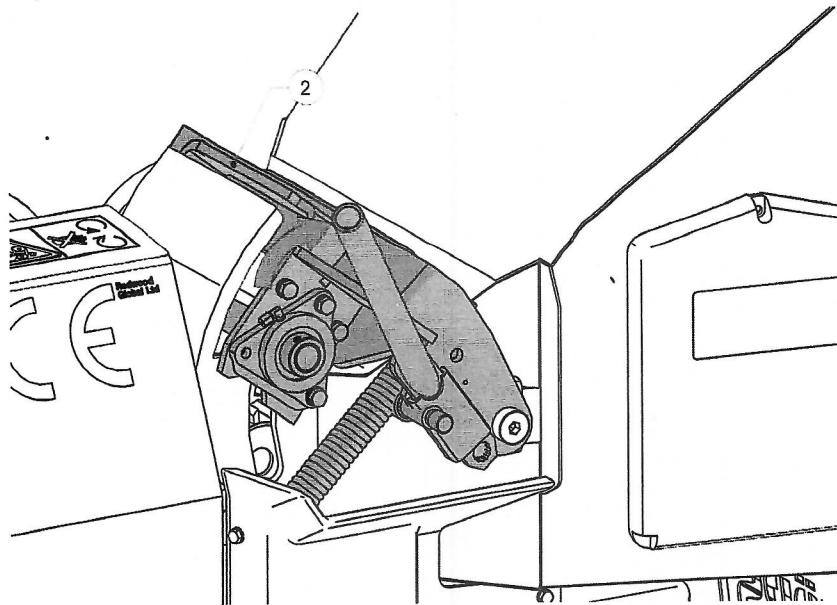


Figure 43 - Raising the top feed roller housing

13. You should now have access to the feed chamber.



WARNING

Be careful; this is the machines cutting zone. The top and bottom feed rollers have sharp teeth and, the flywheel cutting blades are not far from them. **Do not put your hands into this area.**

14. Wearing protective gloves and using a piece of wood, carefully clear the blockage from inside the feed chamber.